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| Form PTO-1449   |     | U.S. Department of Commerce Patent and Trademark Office   |          | ATTY. DOCKET NO.<br>ITW 12843.60    |       | SERIAL NO.<br>10/789093 |                       |
| SUPPLEMENTAL<br>INFORMATION DISCLOSURE CITATION   |     |   |          | APPLICANT<br>Holverson et al        |       |                         |                       |
|   |     |   |          | FILING DATE<br>February 27,<br>2004 |       | GROUP<br>1725           |                       |
| U.S. PATENT DOCUMENTS   |     |   |          |                                     |       |                         |                       |
| EXAM.<br>INIT.  | REF | PATENT<br>NUMBER  | DATE     | NAME                                | CLASS | SUB-<br>CLASS           | FILING<br>DATE        |
| CX  |     | 3,309,490   | 3/1967   | Cary                                |       |                         |                       |
| CX  |     | 3,382,345   | 5/7/68   | Normando                            |       |                         |                       |
| CX  |     | 4,092,517   | 5/1978   | Woodacre                            |       |                         |                       |
| CX  |     | 5,225,660   | 7/9/93   | Mita et al.                         |       |                         |                       |
| CX  |     | 5,349,159   | 9/20/94  | Mita et al.                         |       |                         |                       |
| CX  |     | 5,990,445   | 11/23/99 | Ogasawara et al.                    |       |                         |                       |
| CX  |     | 6,114,657   | 9/5/00   | Hayes et al.                        |       |                         |                       |
| FOREIGN PATENT DOCUMENTS  |     |   |          |                                     |       |                         |                       |
| EXAM<br>INIT  | REF | DOCUMENT<br>NUMBER  | DATE     | COUNTRY                             | CLASS | SUB-<br>CLASS           | TRANSLATION<br>YES NO |
| CX  |     | EP<br>0644011A1   | 3/22/95  | Europe                              |       |                         |                       |
| CX  |     | DE 2758033  | 6/28/79  | Germany                             |       |                         |                       |
| CX  |     | DE 281978A5   | 8/29/90  | Germany                             |       |                         |                       |
| CX  |     | GB 2258958A   | 5/24/93  | Great Britain                       |       |                         |                       |
| OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)  |     |   |          |                                     |       |                         |                       |
| CX  |     | Advancements in DC and AC Low Current Pulse GMAW, T. Nacey & K. Pagano, Panasonic Factory Automation, Franklin Park, IL |          |                                     |       |                         |                       |
| CX  |     | Wie funktioniert es - Schweißen mit rechteckförmigem Wechselstrom, R. Killing & G. Kaulich, Solingen, derPraktiker 8/96 |          |                                     |       |                         |                       |
| EXAMINER <i>cl/bte</i> DATE CONSIDERED <i>1/24/2005</i>   |     |   |          |                                     |       |                         |                       |
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| Form PTO-1449   |     | U.S. Department of Commerce Patent<br>And Trademark Office  |         | ATTY. DOCKET NO.<br>ITW 12843.60    |       | SERIAL NO.<br>10/789093 |                       |
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|   |     |   |         |                                     |       |                         |                       |
| FOREIGN PATENT DOCUMENTS  |     |   |         |                                     |       |                         |                       |
| EXAM<br>INIT  | REF | DOCUMENT<br>NUMBER  | DATE    | COUNTRY                             | CLASS | SUB-<br>CLASS           | TRANSLATION<br>YES NO |
| CA  |     | JP 55-77976   | 6/12/80 | Japan                               |       |                         |                       |
| CA  |     | JP11-<br>226730A  | 8/24/99 | Japan                               |       |                         |                       |
| CA  |     | JP2892198-<br>B2  | 5/17/99 | Japan                               |       |                         |                       |
| CA  |     | JP S56-<br>128673   | 3/13/80 | Japan                               |       |                         |                       |
| OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)  |     |   |         |                                     |       |                         |                       |
| CA  |     | SENSARC PC350 EP/EN Ratio-Controllable GMA Welding Power Source<br>Masashi OKADA, Welding Equipment Robot Dept., Welding Div. |         |                                     |       |                         |                       |
| CA  |     | Summet Arc 1000 Miller® The Power of Blue February 1998   |         |                                     |       |                         |                       |
| CA  |     | Research and development of variable polarity GMAW, PRACTICAL<br>WELDING TODAY July/August 1998                               |         |                                     |       |                         |                       |
| CA  |     | Subarc Technology Breakthrough Technology Increases Saw<br>Deposition Rates Welding Design and Fabrication 3/2002             |         |                                     |       |                         |                       |
|   |     |   |         |                                     |       |                         |                       |
| EXAMINER <i>Ceffelt</i>   |     |   |         | DATE CONSIDERED 1/24/2005           |       |                         |                       |
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| Form PTO-1449 U.S. Department of Commerce Patent<br>And Trademark Office  |     |   |        | ATTY. DOCKET NO.<br>ITW 12843.60    |       | SERIAL NO.<br>10/789093 |                       |
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| EXAM.<br>INIT.  | REF | PATENT<br>NUMBER  | DATE   | NAME                                | CLASS | SUB-<br>CLASS           | FILING<br>DATE        |
| CA  |     | 5,824,992   | 10/98  | Nagarajan et al.                    |       |                         |                       |
| CA  |     | 5,857,141   | 1/5/99 | Keegan et al.                       |       |                         |                       |
| CA  |     | 6,207,927   | 3/01   | Mita et al.                         |       |                         |                       |
| FOREIGN PATENT DOCUMENTS  |     |   |        |                                     |       |                         |                       |
| EXAM<br>INIT  | REF | DOCUMENT<br>NUMBER  | DATE   | COUNTRY                             | CLASS | SUB-<br>CLASS           | TRANSLATION<br>YES NO |
|   |     |   |        |                                     |       |                         |                       |
|   |     |   |        |                                     |       |                         |                       |
|   |     |   |        |                                     |       |                         |                       |
| OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)  |     |   |        |                                     |       |                         |                       |
| CA  |     | Solid Wire AC Mig welding, Welding Research International<br>Volume 8, 1978, Number 2 |        |                                     |       |                         |                       |
| CA  |     | Miller VL-M4 Miller® The Power of Blue April 1998                                     |        |                                     |       |                         |                       |
| CA  |     | RAD-400 And RAD-780 Miller® The Power of Blue June 2001                               |        |                                     |       |                         |                       |
| CA  |     | Metalloy X-CEL Gas-Shielded Metal-Cored Wire Information                              |        |                                     |       |                         |                       |
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